This listing of claims will replace all prior versions, and listings, of the claims in this application:

Listing of Claims

Claim 1 (currently amended): A computer-implemented builder tool to create a target executable file for a multiple virtual machine environment, comprising:

a computerized system comprising a [[display component]] graphical user interface;

an overview component, presented on said display component, depicting a plurality of virtual machines of an embedded virtual machine environment; and

a parameter detail component, presented on said display component concurrently with display, in said overview component, of its related virtual machine of said plurality of virtual machines;

wherein said parameter detail component displays parameter information associated with at least one of the virtual machines of said overview component.

Claim 2 (original): The computer-implemented builder tool of claim 1, wherein said overview component further comprises a project choice.

Claim 3 (original): The computer-implemented builder tool of claim 2, wherein said project choice further comprises a plurality of choices.

Claim 4 (original): The computer-implemented builder tool of claim 1, wherein each virtual machine of said plurality of virtual machines further comprises a plurality of associated virtual machine parameter group designators.

Claim 5 (original): The computer-implemented builder tool of claim 4, wherein said overview component comprises a tree structure facilitating parameter group designator selection.

Claim 6 (original): The computer-implemented builder tool of claim 4, wherein said overview component comprises an index tab structure facilitating parameter group designator selection.

Claim 7 (original): The computer-implemented builder tool of claim 4, wherein said overview component comprises a main menu and sub-menu structure facilitating parameter group designator selection.

Claim 8 (original): The computer-implemented builder tool of claim 1, wherein at least one virtual machine of said plurality of virtual machines comprises an interrupt assignment parameter group designator.

Claim 9 (original): The computer-implemented builder tool of claim 1, wherein each virtual machine of said plurality of virtual machines comprises an interrupt assignment parameter group designator.

Claim 10 (original): The computer-implemented builder tool of claim 8, wherein said parameter detail component comprises a method signature entry field when said interrupt assignment parameter group designator is selected.

Claim 11 (original): The computer-implemented builder tool of claim 1, further comprising a new virtual machine creator.

Claim 12 (original): The computer-implemented builder tool of claim 11, wherein said new virtual machine creator comprises a routine prompting a user to enter data needed to create a new virtual machine.

Claim 13 (original): The computer-implemented builder tool of claim 12, wherein said routine also automatically retrieves data needed to create a new virtual machine.

Claim 14 (original): The computer-implemented builder tool of claim 1, further comprising a resource manager.

Claim 15 (original): The computer-implemented builder tool of claim 14, wherein said resource manager further comprises a resource determination algorithm.

Claim 16 (original): The computer-implemented builder tool of claim 15, wherein said resource manager further comprises a resource modification interface.

Claim 17 (original): The computer-implemented builder tool of claim 16, wherein said resource modification interface comprises a resource allocation interface.

Claim 18 (original): The computer-implemented builder tool of claim 16, wherein said resource modification interface comprises a. resource removal interface.

Claim 19 (original): The computer-implemented builder tool of claim 1, further comprising a parameter determination algorithm.

Claim 20 (original): The computer-implemented builder tool of claim 19, wherein said parameter determination algorithm comprises a parameter prioritization structure.

Claim 21 (currently amended): A method using a computer-implemented builder tool to create a target executable file for an embedded multiple virtual machine environment, comprising the steps of:

receiving, by the builder tool, compiled source code of a first application;

receiving, by the builder tool, compiled source code of a second application;

creating, by the builder tool, a first relocatable virtual machine to run the compiled source code of the first application;

creating, by the builder tool, a second relocatable virtual machine to run the compiled source code of the second application;

determining, by the builder tool, parameters for the embedded multiple virtual machine environment;

locating, by a locating tool of the builder tool, said first relocatable virtual machine and said second relocatable virtual machine; and

generating a target executable file for the embedded multiple virtual machine environment.

Claim 22 (currently amended): The method of claim 21, further comprising the steps of:

receiving, by the builder tool, compiled source code of a third application;

creating, by the builder tool, a third relocatable virtual machine to run the compiled source code of the third application; and

wherein said locating step [[said]] also locates the third relocatable virtual machine.

Claim 23 (currently amended): The method of claim 21, further comprising the steps of:

receiving, by the builder tool, a plurality of additional compiled source codes,

each additional compiled source code of said plurality of additional compiled source

codes being related to an additional application;

creating, by the builder tool, a plurality of additional relocatable virtual

machines, each additional relocatable virtual machine of said plurality of additional

relocatable virtual machines being created to run one of the additional compiled source

codes of said plurality of additional compiled source codes; and

wherein said locating step [[said]] also locates said plurality of additional

relocatable virtual machines.

Claim 24 (original): The method of claim 21, wherein said determining step further

comprises the step of searching for user-defined parameters.

Claim 25 (original): The method of claim 24, wherein said determining step further

comprises the step of searching for resource defined parameters.

Claim 26 (original): The method of claim 25, wherein said determining step further

comprises the step of next searching for target hardware configuration defined

parameters.

Claim 27 (original): The method of claim 26, wherein said determining step further comprises the step of next searching for runtime defined parameters.

Claim 28 (original): The method of claim 27, wherein said determining step further comprises the step of next searching for default parameters.

Claim 29 (original): The method of claim 21, wherein said compiled source code of a first application comprises a set of first application relocatable objects and an associated set of first application runtime relocatable objects; and

wherein said compiled source code of a second application comprises a set of second application relocatable objects and an associated set of second application runtime relocatable objects.

Claim 30 (original): The method of claim 21, wherein said generating step further comprises generation of a related list file and a related load script file.

Claim 31 (original): The method of claim 24, wherein said step of searching for user-defined parameters comprises searching for an interrupt routine entered as a method signature by a user.

Claim 32 (original): The method of claim 24, wherein said step of searching for user-defined parameters comprises searching for user-entered virtual machine build data.

Claim 33 (original): The method of step 21, further comprising the step of guiding, by said builder tool, a user to enter data needed to create a new virtual machine.

Claim 34 (original): The method of claim 21, further comprising the step of establishing a count of available resources.

Claim 35 (original): The method of claim 34, further comprising the step of dynamically updating information on the count of available resources in real time.

Claim 36 (original): The method of claim 35, further comprising the step of allocating resources by a user of the builder tool.

Claim37 (original): The method of claim 35, further comprising the step of removing resources by a user of the builder tool.

Claim 38 (original): The method of claim 21, further comprising the step of assigning an interrupt routine to a method by entry, by a user of the builder tool, of an identifying method signature.

Claim 39 (original): The method of claim 21, further comprising the step of dynamically updating information on the determined parameters in real time.

Claim 40 (currently amended): A computer-readable storage medium, comprising a computer-executable code to establish a builder tool for an embedded multiple independent virtual machine environment, said code comprising an algorithm to determine build parameters.

Claim 41 (original): The computer-readable storage medium of claim 40, wherein said algorithm to determine build parameters is structured to perform a prioritized search based on how the parameter was defined.

Claim 42 (original): The computer-readable storage medium of claim 40, wherein said code further comprises an algorithm to determine available resources.

Claim 43 (original): The computer-readable storage medium of claim 42, wherein said algorithm to determine available resources is structured to permit user allocation of an available resource.

Claim 44 (original): The computer-readable storage medium of claim 42, wherein said code further comprises an algorithm to dynamically update available resource data throughout the builder tool, in real time, upon determining the available resources.

Claim 45 (original): The computer-readable storage medium of claim 40, wherein said code further comprises an algorithm to dynamically update available build parameter data throughout the builder tool, in real time, upon determination of build parameters.

Claim 46 (original): The computer-readable storage medium of claim 40, wherein said code further comprises a routine to permit user configuration of hardware pins via a graphical user interface.

Claim 47 (currently amended): A computer-readable storage medium, comprising a computer-executable code to establish a builder tool for an embedded multiple independent virtual machine environment, said code comprising an algorithm to determine build parameters, said algorithm to determine build parameters being structured to perform a prioritized search based on how the parameter was defined; said code further comprising an algorithm to determine available resources, said algorithm to determine available resources being structured to permit user allocation of an available resource; said code further comprising an algorithm to dynamically update available resource data throughout the builder tool, in real time, upon determining the available resources; said code further comprising an algorithm to dynamically update available build parameter data throughout the builder tool, in real time, upon determination of build parameters; and said code further comprising a routine to permit user configuration of hardware pins via a graphical user interface.

Claim 48 (currently amended): A computer-implemented builder tool to create a target executable file for a multiple virtual machine environment, comprising:

means for executing computer code; and

means for displaying a visual user interface, coupled with said means for executing computer code, said means for displaying comprising a visible overview component depicting a plurality of virtual machines of an embedded multiple virtual machine environment and a visible parameter detail component related to a depicted virtual machine of said plurality of virtual machines.

General Authorization Under 37 CFR 1.136(a)(3)

The Patent and Trademark Office is hereby authorized to treat this or any future response requiring a petition for an extension of time, as incorporating a petition for extension of time for the appropriate length of time.

In addition, the Patent and Trademark Office is hereby authorized to charge any fees deemed due under 37 CFR 1.17 to Deposit Account 19-2260.

Further, if it is determined that any other fees are due in this application, or if it is determined that an overpayment has been made, the Patent and Trademark Office is hereby authorized to charge or credit Deposit Account 19-2260 as appropriate.